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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/681,930	06/27/2001	Kuldipsingh Pabla	83000.1126B	8321	
32291	7590 11/16/2005		EXAMINER		
MARTINE F	PENILLA & GENCAI AY DRIVE	TANG, KE	TANG, KENNETH		
SUITE 200	· · · Dia · · D		ART UNIT	PAPER NUMBER	
SUNNYVAL	E, CA 94085	2195			

DATE MAILED: 11/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)				
Office Astion Commence		09/681,93	30	PABLA ET AL.	PABLA ET AL.			
	Office Action Summary	Examiner		Art Unit				
		Kenneth 1		2195				
Period fo	The MAILING DATE of this communica or Reply	tion appears on the	cover sheet with th	e correspondence ad	ddress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL asions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this community period for reply is specified above, the maximum statutore to reply within the set or extended period for reply will eply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF TH 17 CFR 1.136(a). In no ever cation. ory period will apply and w , by statute, cause the app	HIS COMMUNICAT ent, however, may a reply b ill expire SIX (6) MONTHS t lication to become ABANDO	ION. e timety filed from the mailing date of this of the content o				
Status								
1)⊠	Responsive to communication(s) filed	on <i>30 August 2005</i>	;_					
•	This action is FINAL . 2b)⊠ This action is non-final.							
3)	,—							
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4) 🖂	Claim(s) 1-18 is/are pending in the app	olication.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
6)🖂	Claim(s) <u>1-18</u> is/are rejected.							
7)								
8) 🗌	Claim(s) are subject to restriction	n and/or election r	equirement.					
Applicat	on Papers							
9) 🗌	The specification is objected to by the E	Examiner.						
-	The drawing(s) filed on is/are: a		objected to by the	he Examiner.				
	Applicant may not request that any objection	on to the drawing(s) I	e held in abeyance.	See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the Internationa	•	• • •					
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notic	e of Draftsperson's Patent Drawing Review (PTO		Paper No(s)/Ma	il Date	CO 152)			
	mation Disclosure Statement(s) (PTO-1449 or PT r No(s)/Mail Date	O/SB/08)	5) Notice of Informal Patent Application (PTO-152)6) Other:					

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DETAILED ACTION

1. This action is in response to the Amendment filed on 8/30/05. Applicant's arguments has been fully considered but is not found to be persuasive.

2. Claims 1-18 are presented for examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-15 and 17-18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Atkinson et al. (hereinafter Atkinson) (US 2002/0012329 A1) in view of French-St. George et al. (hereinafter French-St. George) (US 6,012,030).
- 4. As to claim 18, Atkinson teaches a multi-tier system for providing vendor-neutral communication to mobile devices (page 3, [0023]) comprising:
- a client device having a virtual machine capable of processing device-independent applications (page 2, [0020]),
- a plurality of servers providing a plurality of services to said client device in the form of said device-independent applications (device independent because of device platform independent) ([0050], [0020], [0022], [0024], [0028], [0030], [0097]);

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a gateway for preprocessing (instantiation, etc.) communications between said client device and said plurality of servers thereby reducing processing requirements on said client device (processing memory requirements are reduced because of instantiation) (page 1, [0012] through page 2, [0013], [0103]);

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a plurality of peer-to-peer communication layers between said plurality of servers and said client device through said gateway, said gateway providing protocol translation between said plurality of servers and said client device, wherein said preprocessing communications includes transforming (converting) any content (page 6, [0051], page 2, [0021], [0013], [0031]);

a manager object in said client device for managing said device-independent applications (page 3, [0024], page 5, [0050], claim 9)

- 5. Atkinson fails to explicitly teach each of said device-independent applications having a plurality of states, wherein said plurality of states comprises an initialization state, a background state, a foreground state, a destroy state, and a paused state.
- 6. However, French-St. George teaches using a hand held portable device that provides switching between a foreground and background state of an interface (col. 5, lines 8-20). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the feature of using a hand held portable device that provides switching between a foreground and background state of an interface in order to gain the advantage of conserving processing power by placing inactive applications in the foreground until it is required, where switching to the background will then occur (col. 5, lines 12-20).

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7. In addition, Atkinson and French-St. George fails to explicitly teach an initialization

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(start) state, a destroy (end) state, and a paused state. However, "Official Notice" is taken that

both the concept and advantages of providing that an initialization (start) state, a destroy (end)

state, and a paused state is well known and expected in the art. It would have been obvious to

one of ordinary skill in the art at the time the invention was made to include an initialization

(start) state, a destroy (end) state, and a paused state to the existing system and method of

Atkinson and French-St. George because these are simply the controls that allow for the

switching between the background and foreground. Without such controls, the switching would

not be able to occur.

8. As to claim 17, it is rejected for the same reasons as stated in the rejection of claim 18

above. In addition, Atkinson teaches a framework for the mobile devices (page 5, [0050], page

12, [0102], page 13, [0104]).

As to claim 1, it is rejected for the same reasons as stated in the rejection of claim 18

above. In addition, Atkinson teaches a framework for the mobile devices (page 5, [0050], page

12, [0102], page 13, [0104]).

9. As to claim 2, Atkinson teaches wherein said plurality of peer-to-peer layers comprises:

at least one physical data link layer, a network layer, a transport layer, a session layer, a

presentation layer; and an applications layer (page 1, [0012], pages 1-2, [0013], page 2, [0020]

and [0022], page 3, [0025] and [0027], page 4, [0034]).

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- 10. As to claim 3, Atkinson teaches wherein said at least one physical data link layer comprises landline communication between said third tier and said second tier, and wireless communication between said second tier and said first tier (page 5, [0050], page 6, [0051], page 2, [0021]).
- 11. As to claim 4, Atkinson teaches wherein said network layer uses Internet Protocol communication between said third tier and said second tier, and wireless applications protocol between said second tier and said first tier (page 5, [0050], page 6, [0051], page 2, [0021], page 3, [0025]).
- 12. As to claim 5, Atkinson teaches wherein said transport layer uses transport control protocol between said third tier and said second tier, and wireless applications protocol between said second tier and said first tier (page 5, [0050], page 6, [0051], page 2, [0021], page 3, [0025]).
- 13. As to claim 6, Atkinson teaches wherein said session layer uses hypertext transport protocol between said third tier and said second tier and amongst services in said third tier, and wireless applications protocol between said second tier and said first tier (page 5, [0050], page 6, [0051], page 2, [0021], page 3, [0025]).

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14. As to claim 7, Atkinson teaches wherein said presentation layer uses a markup language between said third tier and said second tier, and a wireless markup language between said second tier and said first tier (page 3, [0025]).

- 15. As to claim 8, Atkinson teaches wherein said application layer prepares graphical data for presentation, said graphical data being available in any suitable graphical format and communicated from said third tier to said second tier, said second tier converting said graphical data to a wireless graphics format for transmission to said first tier (pages 12-13, [0102]).
- 16. As to claim 9, Atkinson teaches wherein said first tier is a wireless device (page 1-2, [0013]).
- 17. As to claim 10, Atkinson teaches wherein said wireless device is a cellular phone (page 1, [0003]).
- 18. As to claim 11, Atkinson teaches wherein said wireless device is a personal data assistant (page 1, [0003]).
- 19. As to claim 12, Atkinson teaches wherein said wireless device includes a software architecture comprising a real-time operating system layer, a virtual machine layer having at least one system class, an application layer (page 2, [0016] and [0020], page 3, [0027]).

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- 20. As to claim 13, Atkinson teaches wherein said real-time operating system layer comprises a wireless small device operating system, a plurality of linking and networking application programming interfaces, and an object for updating and installing software in said wireless device (page 1, [0004], page 3, [0023], page 5, [0050], page 6, [0051], page 2, [0021], page 3, [0025]).
- 21. As to claim 14, it is rejected for the same reasons as stated in the rejections of claims 1 and 18.
- 22. As to claim 15, it is rejected for the same reasons as stated in the rejections of claim 18.
- 23. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Atkinson et al. (hereinafter Atkinson) (US 2002/0012329 A1) in view of French-St. George et al. (hereinafter French-St. George) (US 6,012,030), and further in view of Adusumilli (US 5,870,749)
- As to claim 16, it is rejected for the same reasons as stated in the rejections of claim 18. However, Atkinson and French fail to explicitly teach creating a registry that includes an application object class ID for each of the application object class. Adusumilli teaches creating a registry such as a data object class table with entries having an attribute and ID (col. 3, lines 24-45). It would have been obvious to one of ordinary skill in the art at the time the invention was

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made to combine Adusumilli with Atkinson and French-St. George because this would allow for a simple reliable means to make data translations (col. 1, lines 66-67).

Response to Arguments

25. Applicant argues on page 7 of the Remarks that Atkinson nor French teaches a plurality of servers providing a plurality of services to said client device in the form of said device-independent applications.

As shown in the rejection of claims 1, 17, and 18 above, Atkinson teaches servers that provide services to a client such that the device applications are device platform independent (with Java, for example) ([0050], [0020], [0022], [0024], [0028], [0030], [0097]).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Tang whose telephone number is (571) 272-3772. The examiner can normally be reached on 8:30AM - 6:00PM, Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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